



Author Index

Aguié-Béghin, V., 285
Alexandrova, L., 239
Ananchenkov, V.I., 235
Anastassakis, G.N., 585
Angelova, M., 245
Angelova, M.I., 201
Anghel, D.F., 339
Arkan, B., 279
Asnacios, A., 131

Babak, V., 107
Balinov, B., 23
Barthel, E., 99
Bäumler, H., 389
Biswas, S.C., 65
Blake, T.D., 123
Bryk, M., 539
Budde, A., 389
Butt, H.-J., 145

Chattoraj, D.K., 65
Clarke, A., 123
Colin, A., 131
Cosgrove, T., 57, 329
Crowther, H.M., 57
Czarnecki, J., 577

Danov, K., 245
Daoukaki, D., 253
De Coninck, J., 123
de Ruijter, M., 123
de Souza, E.F., 609
Debacher, N.A., 595
Desobry, S., 107
Dietrich, C., 245
Dimova, R., 201
Donath, E., 389
Doneva, T.A., 499
Döppenschmidt, A., 145
Douillard, R., 285
Dragieva, I., 413
Dumas, P., 315

Eppmann, P., 443
Espert, A., 131
Evers, L.J., 521
Exerowa, D., 23, 141, 179, 185, 207
Facca, F., 89
Figueiredo, J.M.A., 19
Frens, G., 521
Galatanu, N., 339
Galimzyanov, R.M., 235
Gias, E.L.M., 561
Gimsa, J., 443, 451
Göktürk, S., 279
González, G., 291
Grigoriev, D.O., 81
Grigorov, L., 239
Hardy, J., 107
Hellweg, T., 131
Hirata, H., 263
Hoffstetter, J., 315
Humeres, E., 595
Iimura, N., 263
Ionescu, L.G., 609
Iovtchev, S., 389
Ivanova, R., 23, 141, 179
Iwata, A., 431
Jada, A., 315
Janusz, W., 421
Jones, M.N., 561
Kartasheva, Z.S., 29
Kasaikina, O.T., 29
Kawai, T., 39
Khabibullaev, P.K., 427
Kholov, K.N., 235
Kiesewetter, H., 389
Killmann, E., 323
Kim, H.J., 561
Kjøniksen, A.-L., 347
Klitzing, R., 131
Kobata, S., 431
Kobayashi, K., 431
Kolarov, T., 179
Kon-No, K., 39
Konsta, A.A., 253
Kortenska, V.D., 29
Kosmulski, M., 397, 409
Kotsilkova, R., 515
Kovač, S., 481
Kovatcheva, V.K., 603
Koynova, R., 239, 571
Kretzschmar, G., 81, 491
Krishnan, R., 355
Krusteva, E., 515
Krusteva, E.D., 499
Kunitake, T., 193
Kuznetsova, G.M., 29
Kyritsis, A., 253
Lakatos, I., 507
Lakatos-Szabó, J., 507
Lange, H., 301
Langevin, D., 131
Latza, R., 389
Leblanc, R.M., 89
Lebovka, N.I., 13
Letocart, P., 151
Li, J.B., 81, 491
Lianos, P., 49
Licinio, P., 19
Lindman, B., 347
Lucas, E.F., 291
Lyklema, H., 617
Mahapatra, P.K., 65
Makovetsky, V.P., 13
Maltceva, T., 539
Mamatkulov, S.I., 427
Manev, E., 475
Mank, V.V., 13
Mansur, C.R.E., 291
Maximova, T.V., 29
Mears, S.J., 57, 329

- Merta, J., 367
 Michailova, V., 515
 Michalskia, M.C., 107
 Mileva, E., 207
 Miller, R., 81, 491
 Milonjić, S.K., 467
 Minkov, E., 515
 Mitov, M., 413
 Möhwald, H., 491
 Moraru, D.V., 171
 Moraru, V.N., 171
 Morris, G.E., 57
 Mutafchieva, R., 201
 Németh, Z., 141, 179
 Neu, B., 389
 Nigmatullin, R., 539
 Nijman, E.J., 521
 Nikolova, A., 185
 Nishida, A., 553
 Noskov, B.A., 81
 Nyström, B., 347, 379
 Obey, T., 329
 Ohkawa, K., 553
 Ohshima, H., 5
 Okada, S., 431
 Okubo, T., 431
 Ottova, A.L., 217
 Ovcharenko, F.D., 171
 Pakharukov, Y.V., 427
 Panasyuk, T., 539
 Parlapanski, M.D., 603
 Peker, S., 307
 Piletsky, S., 539
 Pissis, P., 253
 Pivovarova, N.S., 13
 Plak, A., 409
 Popov, A., 413
 Pouliquen, B., 245
 Prins, A., 461
 Prüger, B., 443
 Puccetti, G., 89
 Radoev, B., 151, 475
 Rapp, G., 571
 Rehmet, R., 323
 Saidov, A.A., 235, 427
 Saunders, B.R., 57
 Schmid, F., 301
 Schulze, H.J., 151, 475
 Sedev, R., 23, 141, 179
 Senkel, O., 81
 Shchukin, E.D., 529
 Siffert, B., 315
 Sirota, T.V., 29
 Spinelli, L.S., 291
 Sprycha, R., 355
 Stadler, C., 301
 Stathatos, E., 49
 Stenius, P., 367
 Svetličić, V., 481
 Sworska, A., 421
 Szczyga, J., 421
 Tanahashi, T., 431
 Tenchov, B., 201, 239, 571
 Thompson, L., 329
 Tien, H.T., 217
 Titeva, S., 515
 Tsekov, R., 151, 475
 Tsiorvas, D., 49
 Tsuchida, A., 431
 Tunçay, M., 279
 Usui, Y., 39
 van de Ven, T.G.M., 577
 Vassilieff, C.S., 499
 Velikov, K., 245
 Vincent, B., 57
 Voué, M., 123
 Wagner, T.M., 595
 Walderhaug, H., 379
 Wesley, R.D., 329
 Winnik, F.M., 339
 Winterhalter, M., 161, 547
 Wu, X., 577
 Yamamoto, H., 553
 Yanishlieva, N.V., 29
 Yapar, S., 307
 Yonezawa, T., 193
 Yüce, N., 279
 Žutić, V., 481

Subject Index

- AC-field-induced particle movement, 443
AC-field induced particle movement, 451
Acetylenic diol surfactants, 355
Adhesion, 107
Adhesion energy, 99
Adsorption, 65, 315, 323
Adsorption of ions, 421
Adsorption on membranes, 161
AFM, 145
Aggregative adsorption, 207
Alkaline materials, 507
Aluminum (III) oxide, 409
Aluminum oxide, 397
Amphiphile, 207
Anionic surfactant mixtures, 367
Anomalous diffusion, 379
Aqueous bentonite and latex suspensions, 499
Aqueous solution, 379
ASDA, 491
Associating polymers, 347
- Bacterial biofilms, 561
Bilayer lipid membrane, 161
Bilayer lipid membranes, 217
Binding isotherms, 355
Biofilm formation, 481
Biological adhesion, 553
Biopolymer adsorption, 481
Biosensors, 217
Biotin, 161
Block copolymer, 315
Borohydride reduction, 413
Bovine serum albumin, 179
Brownian motion, 245
BSA, 141
Bubble size, 461, 595
- Carrier methods, 585
Cationic liposomes, 561
Cationic starch, 367
Cell-electrophoresis, 389
- Cell-electrorotation, 389
Cell adhesion, 481
Cellulose derivatives, 347, 515
Cetyltrimethylammonium bromide, 609
Chlorides, 603
Co-non-solvency, 57
 $\text{Co}_x\text{B}_y\text{H}_z$ colloid particles, 413
Coarsening, 13
Colloidal crystal, 431
Common black film, 185
Complexation, 367
Concentrated emulsions, 107
Concentrated suspension, 5
Conductometric immunosensor, 539
Contact mechanics, 99
Corrosion, 307
Critical micelle concentration, 291
Critical water content, 253
Cross-flow microfiltration, 499
Cubic phase, 571
- Depletion, 389
Dielectric relaxation spectroscopy, 253
Dielectric spectroscopy, 443
Dilatational rheology, 81
Dimer, 235
Dimethylsulfoxide, 609
Dioxane, 409
Dipole moment, 475
Disjoining pressure, 131
Disperse systems, 529
Dispersion equation, 151
Dispersion relation, 475
DLVO, 145
DMPC, 201
DMSO, 409
Droplet spreading, 123
Dropping mercury electrode, 481
Drying of emulsions, 307
Dunaliella tertiolecta, 481

- Dynamic electrophoretic mobility, 5
 Dynamic light scattering, 347, 451
- EHEC, 379
 Electrical breakdown, 161
 Electrical double layer, 421
 Electro-optics, 431
 Electrocoagulation, 603
 Electrode structure, 413
 Electroflootation, 603
 Electrosurface properties, 171
 Ethanol, 201
 Ethoxylated nonylphenols, 339
- Fatty alcohols, 29
 Film thinning, 179
 Fine particles separation, 585
 FITEQL, 397
 Flotation, 595
 Flow, 107
 Fluorescence spectroscopy, 339
 Foam film, 141
 Foams, 19
 Foam stability, 461
 Fragmentation, 19
- α Dispersion, 389
 Gadolinium, 397
 γ -Immunoglobulin, 539
 Gel, 379
 Gel structure, 515
 GeO₂ particle, 39
 Giant vesicles, 201
 Gibbs equation, 65
 Glycerol, 409
 Gold, 193
 Growth mechanism, 39
- Harmonics, 431
 Heavy water, 409
 Hematite, 421
 Highly concentrated emulsion, 23
 Hole nucleation rupture, 185
 Hydration boundary layer thickness, 171
 Hydration sites, 253
 Hydrocarbon and lipid oxidation, 29
 Hydrogels, 253, 515
 Hydrogen storage, 413
 Hydroperoxide decay, 29
 Hydrophilicity, 171
 Hydrophobic immobilization, 539
 Hydrophobic interaction, 235
 Hydrosol, 193
 Hydrotrope, 291
- Ideal mixing, 367
 Im3m, 571
 Immobilization, 193
 Inherent particle properties, 451
 Interactions, 367
 Interdigitation, 201
 Interfacial phenomena, 217
 Interfacial rheology, 491, 507
 Inverse gas chromatography, 467
 Iron hydroxides, 603
 Isopropylacrylamide, 57
 Isotherm, 323
- Kinetics, 595
- Langmuir monolayers, 301
 Laser Doppler velocimetry, 443
 Light scattering, 329
 Lipid membranes, 547
 Lipid vesicles, 245
 Liposome, 571
 Liposome adsorption, 561
 Liposome targeting, 561
 Liquid/liquid interface, 491
 Low-frequency sound, 603
 Luminescence, 427
- Magnesite, 585
 Magnetic coating, 585
 Maleic anhydride co-polymers, 355
 Manganese dioxide, 279
 Marine adhesive proteins, 553
 Materials, 529
 Membrane viscosity, 245
 Mesophase, 571
 Metal hydride electrodes, 413
 Micellar catalysis, 609
 Micelle, 315
 Microgel, 57
 Microscopic foam films, 179
 Mixed adsorption, 329
 Mixed electrolyte, 421
 Mixed reverse micelles, 29
 Mixed solvent, 409
 Molecular area, 285
 Molecular design, 235
 Molecular dynamics, 123
 Molecular kinetic theory, 123
 Molecular mass, 285
 Monolayer relaxation, 491
- Nanometer scale films, 89
 Nanoparticles, 193
 Network of adsorbed protein, 461

- Newton black film, 185
 Nickel, 397
 NMR, 329, 379
 NMR self-diffusion method, 23
 Non-ionic surfactant, 81
 Non-ionic surfactants, 339
 Nonylphenol ethoxylates, 307
- Obstruction, 379
 Oil-water interface, 507
 Organics adsorption, 467
 Oscillating electric field, 5
 Oscillatory test parameters, 515
 Ostwald ripening, 13
 Oxidised graphite and diamond dispersions, 171
 Oxygen diffusion, 307
- PEG-lipid, 571
 PEO-PPO-PEO triblock copolymer, 23
 PGSE, 379
 Phase diagram, 571
 Phase difference, 431
 Phosphate esters, 609
 Phospholipid, 239
 Phospholipids, 491
 Photocatalysis, 49
 Photoionization, 427
 Physical-chemical mechanics, 529
 Planar lipid bilayers, 217
 Plasticization, 253
 Pluronic L62, 179
 Pluronics, 141
 Point of zero charge, 409
 Polar component, 553
 Poly(acrylic acid), 339
 Polyelectrolyte, 323
 Polyelectrolytes, 131
 Polymer, 329
 Polymer-surfactant interaction, 347
 Polymer/surfactant interactions, 355
 Poly(oxyethylene), 379
 Polystyrene latex, 323
 Polyvinylchloride membrane, 539
 Potentiometry, 339
 Power spectrum of ion current, 547
 Premicelle, 207
 Protein-lipid interaction, 161
 Protein adsorption, 285
 Pyrene, 339
 Pyrite, 595
- Rate constant, 595
 RC model, 451
 Recondensation, 13
- Reduction reaction, 279
 Reflection spectroscopy, 431
 Rehbinder, 529
 Relaxation processes, 81
 Reversed micelles, 39
 Reverse micelles, 49
 Rheological behaviour, 499
 Rheology, 107
 Rigid films, 507
 Rupture, 521
- SANS, 329
 Scaling law, 285
 Self-assembly, 207, 217
 Serpentine, 585
 SFM, 145
 Shape transformations, 201
 Silica, 467
 Size-control, 193
 Slip condition, 151
 Small-angle neutron scattering, 57
 Soap films, 217
 Sodium bis(2-ethylhexyl) sulfosuccinate, 39
 Sodium dodecyl sulphate, 185
 Sol-gel process, 89
 Solid-liquid systems, 65
 Solvent effects, 609
 Specific adsorption, 397
 Spherical particle, 5
 Stability, 171, 185
 Stabilization, 315
 Stagnant surfaces, 461
Staphylococcus aureus, 561
 State equation, 285
 Statistical distributions, 19
 Stealth® lipids, 161
 Stratification, 131
 Streptavidin, 161
 Structure, 521
 Sugar transport, 547
 Sulphates, 603
 Supported BLMs, 217
 Surface charge, 409, 421
 Surface complexation, 397
 Surface energy, 467
 Surface Force, 145
 Surface force-film thickness isotherm, 23
 Surface forces, 99, 141
 Surface free energy, 553
 Surface phase transition, 301
 Surface properties, 107, 467
 Surface tension, 131, 291, 339
 Surface tension gradients, 461
 Surface waves, 151, 475

- Surfactant, 329
Surfactants, 29, 279, 291, 427
Synergism, 307
- Thermally pre-gelatinized starch, 515
Thermodynamic scale, 65
Thermoreversible gel, 347
Thin films, 131
Thin liquid film, 23, 207
Thin liquid films, 521
Thin liquid wetting films, 151
Thin wetting film, 239
Three-phase contact, 239
Tilt, 301
Titania, 89
Titania films, 49
- Titanium (IV) oxide, 409
Transformation of waveform, 431
Triple-layer model, 397
TRXRD, 571
- Ultra-microelectrodes, 451
- Visco-elasticity, 515
Viscoelastic properties, 81
Viscometry, 291
Viscosity, 339
Viscosity profile, 389
- Waste water, 603
Water/oil microemulsion, 39
Wettability, 553

